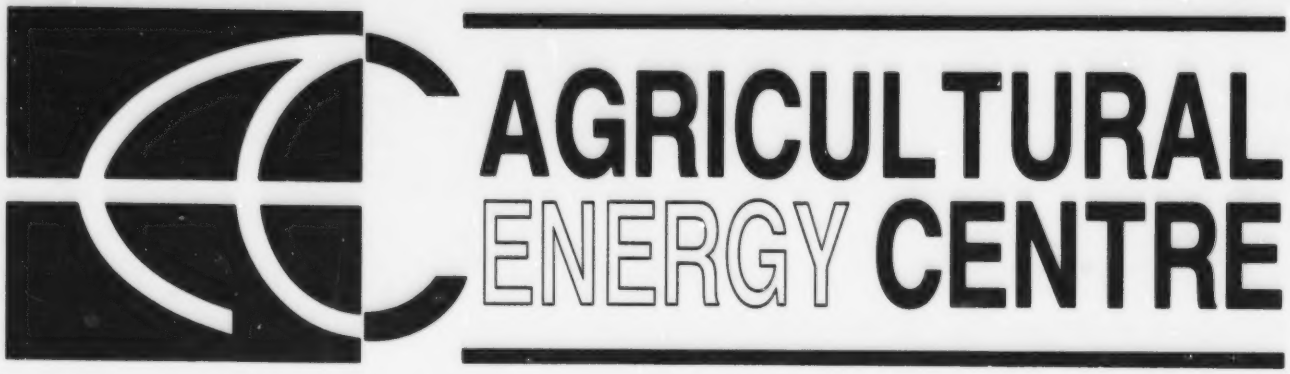
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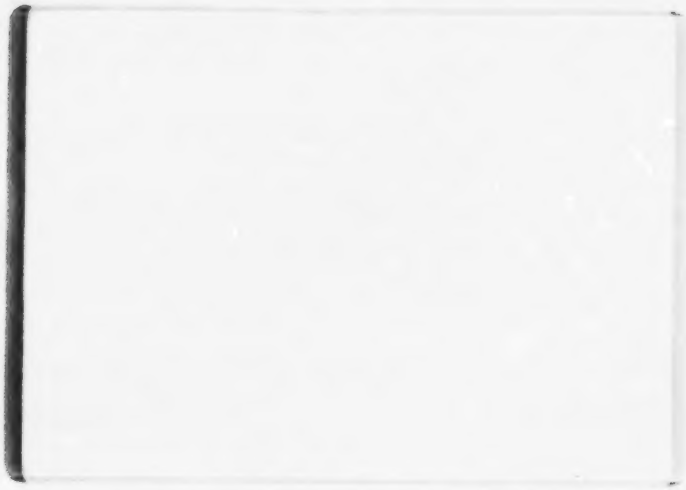

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ENERGY DISPLAYS/EXHIBITS

The following displays may be obtained through OMAF Exhibit Services, 52 Royal Road, Guelph, Ontario, (519) 767-3620, Attn. Mr. Graham Howe.

PASSIVE SOLAR WALL COLLECTOR - Approximately 600 x 2000 mm.

INSULATION MATERIALS EXHIBIT - Approximately 1500 mm x 1000 mm.

ENERGY EFFICIENCY FOR ON-FARM GRAIN DRYERS - Mounted on three 1000 x 3000 mm panels.

HEATING-VENTILATING CONTROL COMPARISON - Three control systems, each mounted on 600 x 600 mm table top panels.

HEAT LAMPS AND DIODE SWITCH DISPLAY - Approximately 300 mm x 300 mm x 2000 mm.

Heat Exchangers in Livestock Bdgs. - Approximately 2000 mm x 4000 mm.

PORTABLE PANEL EXHIBITS - EXHIBIT COMMUNICATIONS, OMAF, GUELPH

ENERGY EXHIBITS FROM 1983 ENERGO CONFERENCE

1. Energy From Livestock Manurial Residues
2. Veal Barn Ventilation
3. Utilizing Milk Heat On The Farm
4. Farm Scale Alcohol Production
5. Vegetable Oil As Diesel Fuel
6. Fuel Alcohol Production
7. Methane Production From Swine Waste
8. Wood Waste Heated Greenhouse
9. Grain Drying With Biomass
10. Biomass Heated Greenhouse
11. Micro-Processor Climate Control
12. Greenhouse Heat Pumps
13. Forage Legume Interseeding In Corn
14. Recycled Heat For Grain Drying
15. Energy Efficient Greenhouse
16. Variability In Red Clover For Nitrogen Fixation

The following displays may be obtained through the OMAF Energy Centre, RCAT, 674-5456, Attn. Mr. H. Spieser.

FIVE CROSS SECTIONS OF VARIOUS ACTIVE AND PASSIVE SOLAR COLLECTORS - Each collector approximately 300 mm x 300 mm.

SOLAR HEAT STORAGE MATERIALS (EUTECTIC) - Approximately 300 mm x 300 mm. each.

SLIDE SHOWS

HOLLOW-WALL TYPE HEAT EXCHANGERS. 1984. Dr. D. Meyer, Pennsylvania State University. Outlines erection of wall-type heat exchangers, polytubes for fresh air, single bank ventilation systems, efficiencies and economics. Available from R. MacDonald, (519) 884-5390.

FARM ENERGY MANAGEMENT SLIDE SET. 1984. CFEM Task Force. Outlines various energy sources and conservation techniques. Available from OMAF Film Library.

GREENHOUSE ENERGY MANAGEMENT. 1980 PART 1: MAINTENANCE AND MODIFICATIONS, Ohio State University. Outlines types of heat loss and measure and materials available to reduce heat loss. Available from H. Spieser (519) 674-5456 Ext. 217. 150 slides complete with slide script.

TECHNICAL MANUALS (ENERGY TECHNOLOGY SERIES)

HEAT RECOVERY IN LIVESTOCK AND POULTRY BUILDINGS. 1988

VIDEOTAPES

MANURE DIGESTERS ON THE FARM. 1984, H. Spieser. Covers basic anaerobic digestion of livestock manure for biogas production and single cell protein (SCP). Five on-farm digesters are reviewed and fixed-film type digesters examined. 20 minutes.

SOLAR VENTILATION WALLS WITH HEAT STORAGE. 1983, H. Spieser. This is a concise look at the principle of operation and construction of solar ventilation walls with heat storage for preheating ventilation air. Some background is also given into early roof-type collectors used for warming ventilation air and their shortfalls. 20 minutes.

GREENHOUSE ENERGY CONSERVATION. 1982, H. Spieser. Various energy conservation techniques in greenhouse energy conservation are discussed. Good general overview of areas in greenhouses where energy can be easily and inexpensively reduced. 20 minutes.

PASSIVE SOLAR WALLS FOR SHOP HEATING. 1980, H. Spieser. Principles of operation and construction techniques are discussed illustrating how a passive solar collector can be used to heat a farm workshop. A number of different shops are examined showing a variety of building types. 20 minutes.

ALTERNATE SOURCES OF ENERGY FOR GREENHOUSES. 1981, J. Taylor. A number of nonconventional greenhouse heating sources are discussed. Systems using corn cobs, sawdust, and water source heat pumps are described. 11 minutes.

PASSIVE VS. ACTIVE SOLAR COLLECTORS. 1982, J. Taylor. General description of the difference between active and passive solar collectors. 10 minutes.

FORGOTTEN FUNDAMENTALS OF THE ENERGY CRISIS. 198?, Dr. A. Bartlett. Examines the exponential rate of fossil fuel use and predicts mathematically the exhaustion of known supplies. 29 minutes.

SAVING ENERGY ON THE FARM. 1983, Ministry of Energy. Reviews current methods of energy conservation on todays farm. (Repeated 10 times on same tape), 3 minutes per run.

CONTAINERIZED CORN CRIB SYSTEM. 1984, OMAF. Reviews benefits of the modular containerized crib system. 2 minutes.

NATURAL VENTILATION OF LIVESTOCK HOUSING. 1985, OMAF. Describes the concepts of natural ventilation and shows on-farm examples for both hogs and cattle. 59 minutes.

IN SEARCH OF EXCELLENCE. Videotape from Ontario Hydro on Marketing Concepts. Available from R.D. MacDonald. 20 minutes.

FLUE CURING TOBACCO 'EFFICIENTLY'. 1987, OMAF. Various energy conservation techniques in tobacco curing are discussed. 20 minutes.

THE BUCK STOPS HERE. 1985. Produced for Alberta Agriculture. Professionally produced and covers energy saving techniques in the field and in animal buildings. 33 min. (Available from Ralph Winfield).

HEAT PUMPS IN AGRICULTURE. 1986, H. Spieser. Looks at various agricultural applications of heat pumps in Ontario. Applications looked at, include greenhouse heating, greenhouse soil cooling, heating poultry barn, recovering waste heat from livetock barn to heat from house as well as a brief discussion on how a heat pump works. 20 minutes.

HEAT RECOVERY IN GRAIN DRYING. 1987, H. Spieser. Reuse of waste heat from grain dryers is discussed. Both direct heat recirculation and heat exchangers are examined. 16 minutes.

HEAT EXCHANGERS IN LIVESTOCK AND POULTRY BUILDINGS - A video study, 1988, H. Spieser. This tape looks at the decision process prior to considering a heat exchanger, as well as what to look for when buying a heat exchanger. 16 minutes.